



Leung.txt
SEQUENCE LISTING

<110> LEUNG, Shui-on
HANSEN, Hans

<120> IMMUNOCONJUGATES AND HUMANIZED ANTIBODIES SPECIFIC FOR B-CELL
LYMPHOMA AND LEUKEMIA CELLS

<130> 40923-0048US3

<140> 09/741,843

<141> 2000-12-22

<150> 09/127,902

<151> 1998-08-03

<150> 08/690,102

<151> 1996-07-06

<150> 08/289,576

<151> 1994-08-12

<160> 22

<170> PatentIn version 3.1

<210> 1

<211> 339

<212> DNA

<213> Murinae gen. sp.

<220>

<221> CDS

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gaa aac gtc act atg agc tgt aag tcc agt caa agt gtt tta tac agt	96
Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser	
20 25 30	

gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg cag	144
Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln	
35 40 45	

tct cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc	192
Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val	
50 55 60	

cct gat cgc ttc aca ggc agc gga tct ggg aca gat ttt act ctt acc	240
Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr	
65 70 75 80	

atc agc aga gta caa gtt gaa gac ctg gca att tat tat tgt cac caa	288
Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln	
85 90 95	

tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag ctg gag atc aaa	336
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Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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cgt
 Arg

339

<210> 2
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 <212> PRT
 <213> Murinae gen. sp.

<400> 2
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Glu Asn Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30

Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
 35 40 45

Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
 65 70 75 80

Ile Ser Arg Val Gln Val Glu Asp Leu Ala Ile Tyr Tyr Cys His Gln
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Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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Arg

<210> 3
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 1 5 10 15

48

tca gtg aag atg tcc tgc aag gct tct ggc tac acc ttt act agc tac
 Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
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20	25	30	
tgg ctg cac tgg ata aaa cag agg cct gga cag ggt ctg gaa tgg att			144
Trp Leu His Trp Ile Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile			
35	40	45	
gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc			192
Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe			
50	55	60	
aag gac aag gcc aca ttg act gca gac aaa tcc tcc agc aca gcc tac			240
Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr			
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atg caa ctg agc agc ctg aca tct gag gac tct gca gtc tat tac tgt			288
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys			
	85	90	95
gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc act ctc			336
Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Leu			
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aca gtc tcc tcg			348
Thr Val Ser Ser			
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<210> 4
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<400> 4
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 35 40 45

Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60

Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
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Thr Val Ser Ser
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<210> 5
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<220>
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 Asp Arg Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
 20 25 30
 gca aat cac aag aac tac ttg gcc tgg tac cag cag aaa cca ggg aaa 144
 Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45
 gca cct aaa ctg ctg atc tac tgg gca tcc act agg gaa tct ggt gtc 192
 Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
 50 55 60
 cct tcg cga ttc tct ggc agc gga tct ggg aca gat ttt act ttc acc 240
 Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
 65 70 75 80
 atc agc tct ctt caa cca gaa gac att gca aca tat tat tgt cac caa 288
 Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
 85 90 95
 tac ctc tcc tcg tgg acg ttc ggt gga ggg acc aag gtg cag atc aaa 336
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 100 105 110
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 Arg

<210> 6
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 <212> PRT
 <213> Homo sapiens

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 Ala Asn His Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 35 40 45

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Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
50 55 60

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr
65 70 75 80

Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
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Tyr Leu Ser Ser Trp Thr Phe Gly Gly Gly Thr Lys Val Gln Ile Lys
100 105 110

Arg

<210> 7
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<212> DNA
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<222> (1)..(348)
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr	
20 25 30	
tgg ctg cac tgg gtc agg cag gca cct gga cag ggt ctg gaa tgg att	144
Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile	
35 40 45	
gga tac att aat cct agg aat gat tat act gag tac aat cag aac ttc	192
Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe	
50 55 60	
aag gac aag gcc aca ata act gca gac gaa tcc acc aat aca gcc tac	240
Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr	
65 70 75 80	
atg gag ctg agc agc ctg agg tct gag gac acg gca ttt tat ttt tgt	288
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys	
85 90 95	
gca aga agg gat att act acg ttc tac tgg ggc caa ggc acc acg gtc	336
Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val	
100 105 110	
acc gtc tcc tcg	348
Thr Val Ser Ser	
115	

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<210> 8
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 <213> Homo sapiens

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 35 40 45
 Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60
 Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
 65 70 75 80
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
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 Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
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 Thr Val Ser Ser
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<210> 9
 <211> 116
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 <213> Homo sapiens

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 20 25 30
 Trp Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile
 35 40 45
 Gly Tyr Ile Asn Pro Arg Asn Asp Tyr Thr Glu Tyr Asn Gln Asn Phe
 50 55 60
 Lys Asp Lys Ala Thr Ile Thr Ala Asp Glu Ser Thr Asn Thr Ala Tyr
 65 70 75 80

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Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Phe Tyr Phe Cys
85 90 95

Ala Arg Arg Asp Ile Thr Thr Phe Tyr Trp Gly Gln Gly Thr Thr Val
100 105 110

Thr Val Ser Ser
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<210> 10
<211> 149
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 10
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ctgatgaccc aggtttcttg acttcagcc 149

<210> 11
<211> 134
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 11
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ttgaagttct gatt 134

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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 12
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<211> 33
<212> DNA
<213> Artificial Sequence

<220>
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 <212> DNA
 <213> Artificial Sequence

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<210> 15
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 <212> DNA
 <213> Artificial Sequence

<220>
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<210> 16
 <211> 150
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic oligonucleotide
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 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic oligonucleotide
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 <211> 45
 <212> DNA
 <213> Artificial Sequence

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<220>
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<210> 19
<211> 121
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 19
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<210> 20
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 20
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<210> 21
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic oligonucleotide

<400> 21
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<210> 22
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic KDEL
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<400> 22
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